

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452983

Luminaire Tested: **GALN-SA4A-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14996 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

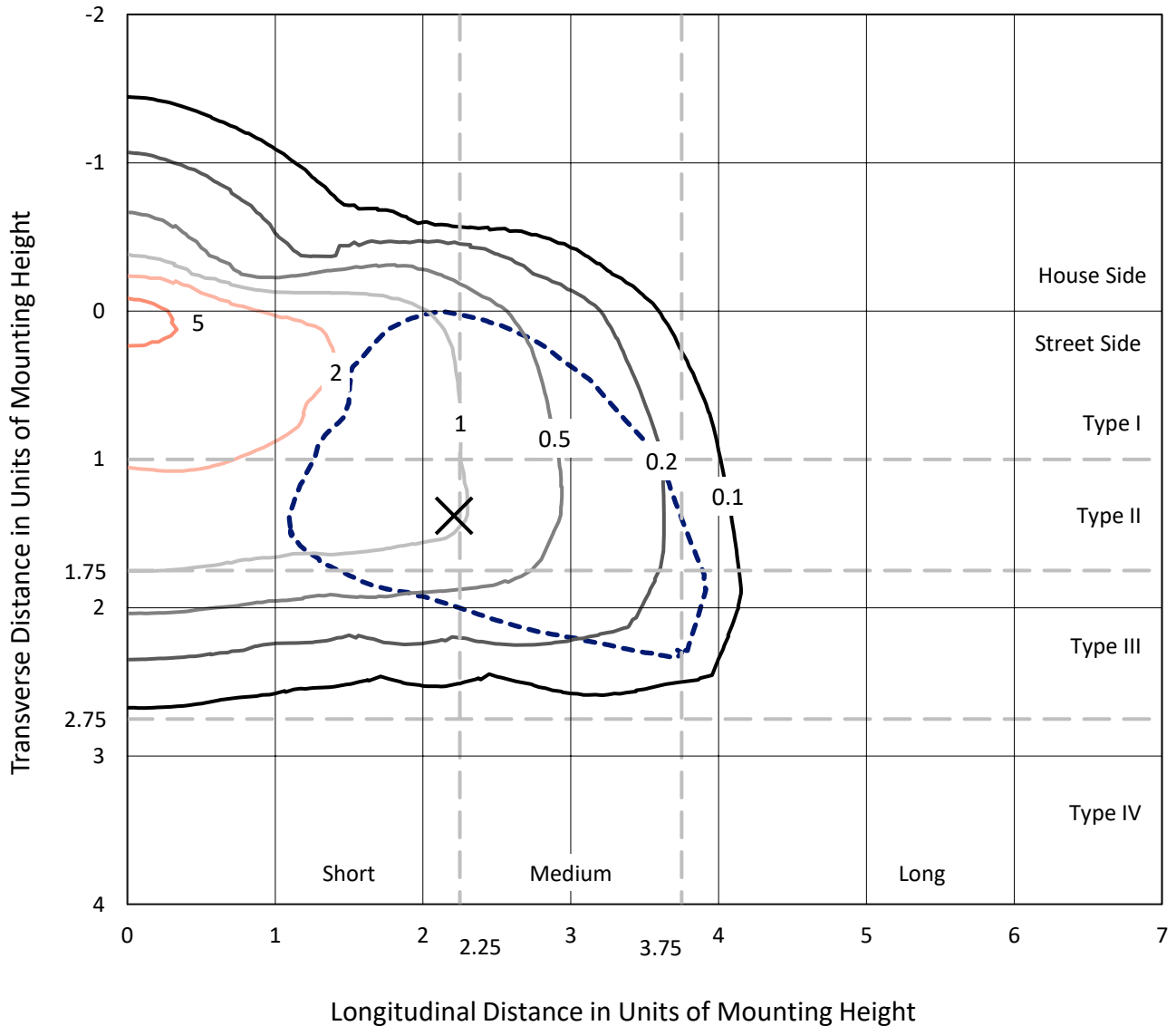
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

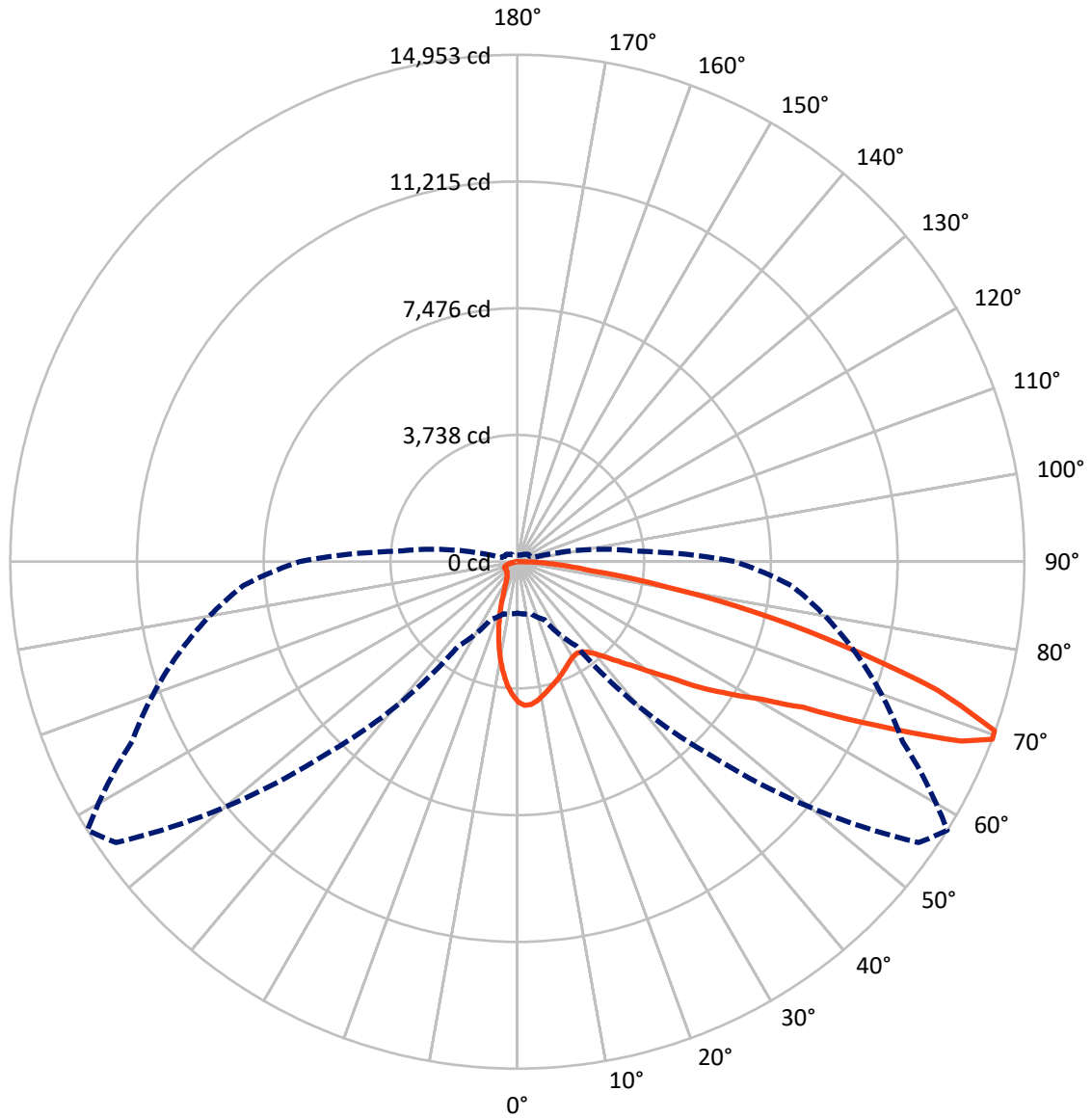
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2197.7	0.0	2197.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12798.3	0.0	12798.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14996.0	0.0	14996.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.9	2.3
10°-20°	772.8	5.2
20°-30°	998.4	6.7
30°-40°	1296.8	8.6
40°-50°	1885.3	12.6
50°-60°	3008.4	20.1
60°-70°	4018.8	26.8
70°-80°	2316.7	15.4
80°-90°	347.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14996.0	100.0
0°-180°	14996.0	100.0

**Coefficient of Utilization**



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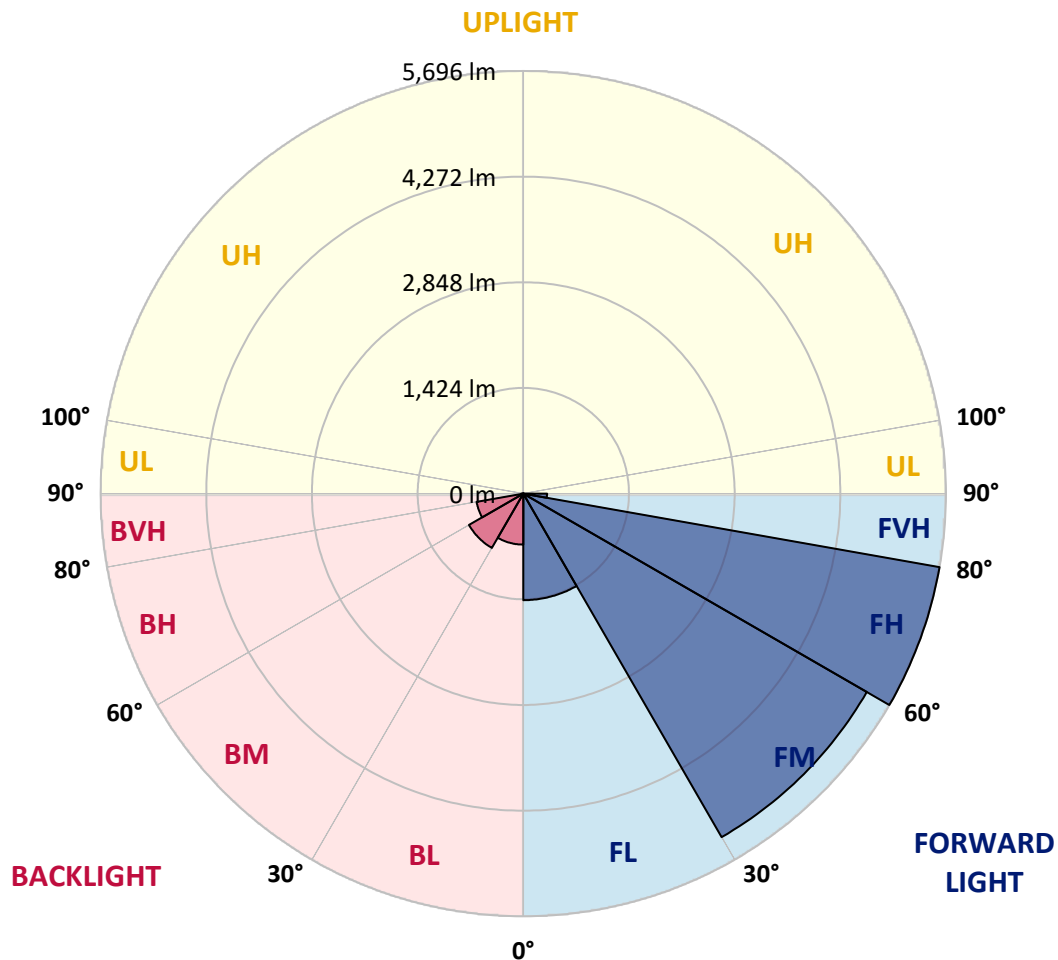
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1436.2	9.6			
FM	(30°-60°)	5345.3	35.6			
FH	(60°-80°)	5696.4	38.0			G3/7500
FVH	(80°-90°)	320.4	2.1			G3/500
BL	(0°-30°)	686.9	4.6	B2/1000		
BM	(30°-60°)	845.1	5.6	B1/1000		
BH	(60°-80°)	639.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	26.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0
2.5°	4297.9	4309.6	4306.3	4302.1	4295.4	4277.0	4246.9	4241.9	4222.6	4181.7	4130.6
5°	4231.8	4241.9	4242.7	4248.6	4256.9	4253.6	4231.8	4229.3	4200.9	4145.7	4060.4
7.5°	4005.2	4018.6	4047.8	4080.5	4109.7	4137.3	4144.0	4148.2	4130.6	4067.1	3953.3
10°	3750.1	3763.5	3776.9	3825.4	3897.3	3965.9	4022.7	4030.3	4034.5	3975.9	3837.1
12.5°	3467.4	3495.0	3523.5	3595.4	3691.6	3799.4	3899.8	3915.7	3944.1	3899.8	3736.7
15°	3227.4	3255.8	3296.8	3361.2	3477.5	3633.0	3774.4	3800.3	3856.3	3833.7	3643.1
17.5°	3061.0	3071.0	3099.4	3173.0	3298.5	3462.4	3651.4	3703.3	3792.8	3786.9	3562.8
20°	2929.7	2942.2	2959.8	3004.9	3135.4	3308.5	3536.8	3603.7	3725.0	3745.1	3483.3
22.5°	2874.5	2883.7	2881.2	2905.4	2994.1	3168.0	3420.6	3500.0	3664.8	3716.7	3409.7
25°	2877.8	2886.2	2873.6	2867.8	2920.5	3044.2	3299.3	3400.5	3616.3	3697.4	3342.8
27.5°	2933.8	2939.7	2916.3	2892.9	2897.0	2967.3	3199.0	3311.0	3575.3	3705.8	3286.8
30°	3009.1	3020.0	3004.9	2976.5	2945.6	2948.9	3134.6	3245.0	3556.1	3735.1	3260.0
32.5°	3106.1	3116.2	3109.5	3086.9	3046.8	3002.4	3118.7	3220.7	3557.7	3794.4	3254.2
35°	3208.2	3228.2	3239.1	3237.4	3204.8	3127.9	3181.4	3265.9	3597.9	3894.0	3288.5
37.5°	3323.6	3340.3	3387.1	3417.2	3387.1	3297.7	3322.7	3381.3	3686.5	4037.8	3363.7
40°	3435.6	3460.7	3529.3	3623.0	3611.3	3532.7	3538.5	3577.0	3842.9	4251.9	3510.9
42.5°	3552.7	3582.8	3702.4	3841.3	3868.9	3807.8	3823.7	3858.0	4065.4	4548.8	3763.5
45°	3703.3	3739.2	3886.4	4059.5	4168.3	4130.6	4175.8	4192.5	4363.1	4935.2	4096.3
47.5°	3897.3	3939.1	4120.6	4336.4	4490.3	4524.5	4603.2	4593.1	4732.0	5392.7	4527.9
50°	4224.3	4247.7	4419.2	4639.1	4850.7	5005.4	5090.7	5106.6	5189.4	5837.6	5010.5
52.5°	4613.2	4634.1	4757.9	4950.2	5215.4	5543.2	5754.0	5702.1	5722.2	6379.5	5575.0
55°	5050.6	5085.7	5164.3	5292.3	5636.0	6118.6	6541.8	6554.3	6331.9	6898.1	6116.1
57.5°	5389.3	5448.7	5583.3	5765.7	6201.4	6758.4	7327.1	7335.5	7051.1	7451.7	6713.2
60°	5218.7	5289.0	5596.7	6040.8	6943.2	7874.9	8265.5	8217.8	7751.1	8082.3	7441.7
62.5°	4482.7	4495.3	4942.7	5636.9	7171.5	9368.6	9662.1	9460.6	8685.3	8881.8	8181.8
65°	2901.2	2983.2	3337.8	4310.4	6421.3	10197.4	12109.2	11643.4	9995.0	9789.2	8801.5
67.5°	1831.6	1810.7	1957.8	2461.3	4416.7	9467.3	14197.5	14123.9	11707.8	10362.1	8653.5
69°	1518.8	1542.2	1592.4	1886.8	3039.2	8083.1	14444.3	14952.7	12538.3	10317.0	8115.7
70°	1377.4	1388.3	1441.0	1672.7	2345.1	6770.1	14039.5	14930.2	12864.4	10128.0	7726.0
72.5°	1093.1	1092.2	1182.6	1391.7	1752.9	3864.7	11528.0	12962.3	12499.8	9248.1	6383.7
75°	830.5	843.9	943.4	1177.6	1615.0	2111.7	8044.7	9982.4	9983.3	7304.5	3983.4
77.5°	598.8	607.2	723.4	988.5	1521.3	1712.0	5358.4	7159.8	6730.8	3347.0	1252.0
80°	392.2	397.3	485.9	782.8	1371.6	1615.0	3177.2	4382.4	3174.7	888.2	414.0
82.5°	214.9	240.0	296.9	506.8	1100.6	1492.0	1931.1	2217.9	1190.9	395.6	215.8
85°	107.9	114.6	167.3	296.1	719.2	1234.4	1344.8	1272.1	614.7	196.5	112.1
87.5°	31.8	40.1	69.4	114.6	291.9	643.1	748.5	671.6	236.7	71.1	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0	4144.0
2.5°	4109.7	4094.7	4027.8	3967.6	3912.4	3853.8	3804.5	3761.0	3765.2	3766.0	3721.7
5°	4016.1	3981.8	3854.6	3735.9	3635.5	3508.4	3399.7	3329.4	3294.3	3247.5	3264.2
7.5°	3888.9	3822.9	3646.4	3449.0	3264.2	3099.4	2920.5	2797.5	2718.9	2642.8	2652.8
10°	3757.6	3651.4	3394.7	3133.7	2894.5	2631.1	2402.8	2207.1	2061.6	2007.2	1971.2
12.5°	3623.0	3483.3	3157.1	2810.1	2479.7	2164.4	1840.8	1630.8	1470.3	1385.0	1395.8
15°	3500.0	3330.3	2909.6	2486.4	2057.4	1681.9	1359.0	1159.2	1047.1	1023.7	1037.0
17.5°	3386.3	3163.8	2677.9	2171.9	1671.0	1261.2	1021.2	908.3	863.1	850.5	849.7
20°	3269.2	3022.5	2417.8	1835.7	1302.2	977.7	838.0	785.3	777.0	782.0	782.8
22.5°	3150.5	2847.7	2150.2	1502.0	1037.0	799.5	732.6	718.4	725.1	736.8	738.5
25°	3040.9	2693.8	1892.6	1209.3	828.0	702.5	669.9	669.9	685.0	702.5	703.4
27.5°	2950.6	2545.0	1635.9	960.1	693.3	632.3	621.4	627.2	648.2	661.5	662.4
30°	2876.1	2406.1	1393.3	769.4	609.7	576.2	573.7	583.8	598.8	611.4	612.2
32.5°	2820.1	2284.0	1166.7	646.5	552.0	533.6	532.7	540.3	548.6	552.0	555.3
35°	2798.4	2182.8	959.3	568.7	513.5	501.8	501.8	501.0	504.3	506.0	507.7
37.5°	2815.9	2105.0	798.7	518.5	485.1	476.7	471.7	466.7	465.0	465.0	465.8
40°	2890.4	2064.1	679.1	485.9	465.0	452.5	443.3	437.4	431.5	433.2	434.9
42.5°	3048.4	2071.6	598.0	464.2	447.4	429.9	416.5	409.8	405.6	410.6	409.8
45°	3300.2	2146.9	546.1	449.1	429.9	407.3	394.7	388.1	388.1	395.6	398.1
47.5°	3652.3	2290.7	518.5	437.4	416.5	389.7	377.2	372.2	373.8	386.4	387.2
50°	4082.1	2540.8	513.5	431.5	409.8	377.2	363.0	357.9	362.1	375.5	377.2
52.5°	4556.3	2862.8	537.8	432.4	403.9	369.7	351.3	343.7	347.9	358.8	362.1
55°	5118.3	3265.9	600.5	435.7	395.6	365.5	342.9	326.2	331.2	338.7	339.6
57.5°	5692.1	3774.4	710.9	436.6	388.9	357.9	328.7	306.9	306.9	312.0	314.5
60°	6392.9	4328.0	856.4	437.4	389.7	347.1	309.4	285.2	281.8	284.4	285.2
62.5°	7088.7	4791.3	880.7	434.9	398.1	336.2	288.5	263.4	257.6	256.8	255.1
65°	7395.7	4705.2	721.8	423.2	407.3	329.5	271.8	242.5	232.5	229.2	229.2
67.5°	6895.5	3980.1	542.8	407.3	401.4	322.8	255.9	225.0	213.3	206.6	206.6
69°	6425.5	3540.2	487.6	396.4	386.4	312.0	245.9	215.8	201.6	194.0	191.5
70°	6062.6	3237.4	464.2	387.2	372.2	299.4	238.4	209.1	193.2	184.8	183.2
72.5°	4838.2	2539.9	406.5	352.1	317.0	251.7	211.6	188.2	173.1	163.9	161.4
75°	2788.3	1376.6	337.0	306.1	255.1	195.7	179.0	163.9	152.2	143.8	141.3
77.5°	858.1	531.9	244.2	241.7	187.3	151.4	143.0	137.2	128.8	119.6	117.9
80°	361.3	271.0	165.6	163.1	124.6	105.4	102.9	102.0	98.7	91.2	88.7
82.5°	198.2	153.0	115.4	100.4	75.3	61.1	63.6	64.4	61.9	54.4	49.3
85°	97.0	83.6	56.0	45.2	34.3	21.7	20.9	25.1	23.4	16.7	18.4
87.5°	19.2	23.4	15.1	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)